

### "Section 3.1 Assignment"

#### Part A Data:

McDonalds' Sandwich	Total Number Grams of Fat
Bacon Cheeseburger	14
Big Mac	29
Big West	23
Big Xtra	28
Big Xtra with Cheese	36
Cheeseburger	12
Chicken McGrill	15
Crispy Chicken	22
Chicken Snack Wrap	16
Double Big Mac	40
Double Cheeseburger	22
Double Quarter Pounder	37
Double Quarter Pounder with cheese	45
Fillet-O-Fish	21
Grilled Cheese Sandwich	10
Grilled Chicken Snack Wrap with Honey Mustard	8
Hamburger	8
McChicken	25
Junior Chicken	19
Quarter Pounder	20
Quarter Pounder with Cheese	28

- Part A:**
- 1) List 3 ways to display data.
  - 2) Find the mean, median, mode and range of the data.
  - 4) What measure of central tendency best represents the data? Why?
  - 5) Stem-and-leaf:
    - a) Place the data in a stem and leaf plot.
    - b) What are the 4 fattiest sandwiches?
    - c) What are the 4 least fatty sandwiches?
    - d) Are there any clusters in the data? If so, where?
  - 6) Box-and-Whisker:
    - a) What are the lower and upper extremes?
    - b) What are the lower and upper quartiles?
    - c) Construct a box-and-whisker plot. Don't forget the mean!
    - d) Where does 50% of our data lie? What is the typical amount of fat?
  - 7) Histogram:
    - a) Complete a frequency table.
    - b) Construct a histogram for the data using bin sizes of 10.
    - c) Mark the mean and median using vertical lines.

#### Part B:

These are the end of season point totals for the Montreal Canadians from the 1970-71 to 2006-07.

65	82	79	103	113	103	78	96	85	92	127	109
75	91	83	97	132	98	81	92	90	108	129	75
93	92	77	120	115	94	100	98	94	99	107	87

- 1) Construct a box and whisker & a histogram (bin sizes of 15) with a TI-83 calculator.
- 2) Sketch both individually. Be sure to label all values and axes.
- 3) Create a double stat plot with both the box & whisker and histogram. Sketch it.